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**Tissue regenerating composition forming open pore foam, especially useful as bone replacement and/or drug releasing implant**

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### Patent Family

Patent Number	Kind	Date	Application Number	Kind	Date	Week	Type
WO 9947097	A2	19990923	WO 99DE781	A	19990315	199948	B
DE 19812195	A1	19990930	DE 1012195	A	19980319	199948	
DE 19812195	C2	20000330	DE 1012195	A	19980319	200020	
EP 1064032	A2	20010103	EP 99919099	A	19990315	200102	
			WO 99DE781	A	19990315		

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### Patent Details

Patent	Kind	Language	Page	Main IPC	Filing Notes
WO 9947097	A2	G	17	A61H-027/00	
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EP 1064032	A2	G		A61L-027/00	Based on patent WO 9947097
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### Abstract:

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**NOVELTY** A polymerizable composition (I) for the formation of tissue in a human or animal body polymerizes to give an open-pore foam in which the forming tissue grows.

**USE** (I) specifically forms a medicinal implant and/or a bone replacement material; and may contain active agents, specifically tissue hormones (claimed) but also e.g. antibiotics or corticoids. The use of (I) is claimed for: (i) the formation of bone tissue, especially for filling paradontal bone pockets, for augmentation of jaw bone, as endodontic filling, for eliminating bone defects or for treating osteoporosis; (ii) skin regeneration; (iii) tumor treatment, where (I) contains tumor necrosis factor as active agent; or (iv) nerve tissue regeneration, where (I) contains a neurotransmitter as active agent.

(I) may also be used to form an electrically conductive foam (claimed) or for burn treatment.

**ADVANTAGE** Use of an open pore foam provides more rapid resorption and minimizes inhibition of tissue growth. A wide range of implants, having controllable resorption times, tissue adhesion properties and strengths, can be easily produced directly at the implantation sites.

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**Technology Focus:**

**TECHNOLOGY FOCUS - POLYMERS** - The obtained foam has a closed skin on the opposite side from that on which the tissue forms. (I) includes hollow spheres of resorbable material or water-soluble solid particles containing an active agent; and/or water-soluble particles for formation of at least part of the pores or for connecting the pores. (I) polymerizes in bulk, specifically to form a polyurethane, especially where the polyol component is an aliphatic diol or triol of molecular weight 100-600, the polyisocyanate component is an aliphatic compound having at least 2 NCO groups separated by at least 3 CH<sub>2</sub> groups and the NCO : OH molar ratio is at least 2.

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